

Fig. 1

```

Key Length == 128bit or 192bit
KeyExpansion ( byte Key [ 4 * Nk] word W [ Nb * ( Nr + 1 ) ]
{
    for ( i = 0 ; i < Nk ; i++ )
        W [ i ] = ( Key [ 4 * i ] , Key [ 4 * i + 1 ] , Key [ 4 * i + 3 ] ) ;
    for ( i = Nk ; i < Nb * ( Nr + 1 ) ; i++ )
    {
        temp = W [ i - 1 ] ;
        if ( i % Nk == 0 )
            temp = Sub Byte ( Rot Byte ( temp ) ) ^ Rcon [ i / Nk ] ;
        W [ i ] = W [ i - Nk ] ^ temp ;
    }
}

Key Length == 256bit
KeyExpansion ( byte Key [ 4 * Nk] word W [ Nb * ( Nr + 1 ) ]
{
    for ( i = 0 ; i < Nk ; i++ )
        W [ i ] = ( Key [ 4 * i ] , Key [ 4 * i + 1 ] , Key [ 4 * i + 3 ] ) ;
    for ( i = Nk ; i < Nb * ( Nr + 1 ) ; i++ )
    {
        temp = W [ i - 1 ] ;
        if ( i % Nk == 0 )
            temp = Sub Byte ( Rot Byte ( temp ) ) ^ Rcon [ i / Nk ] ;
        else if ( i % Nk == 4 )
            temp = Sub Byte ( temp ) ;
        W [ i ] = W [ i - Nk ] ^ temp ;
    }
}

```

Fig. 2

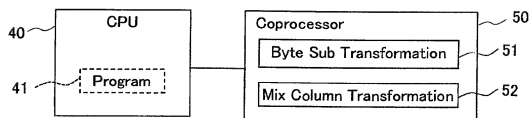


Fig. 3

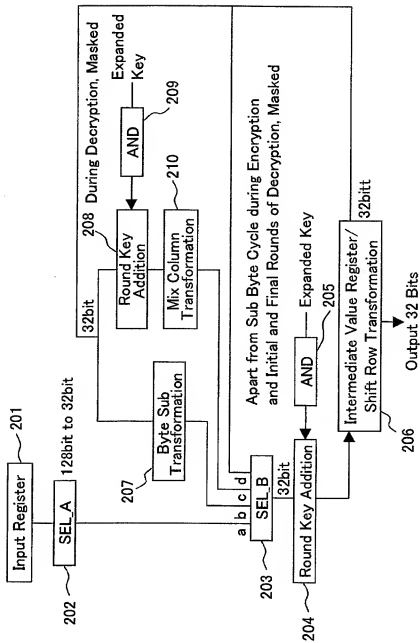


Fig. 4

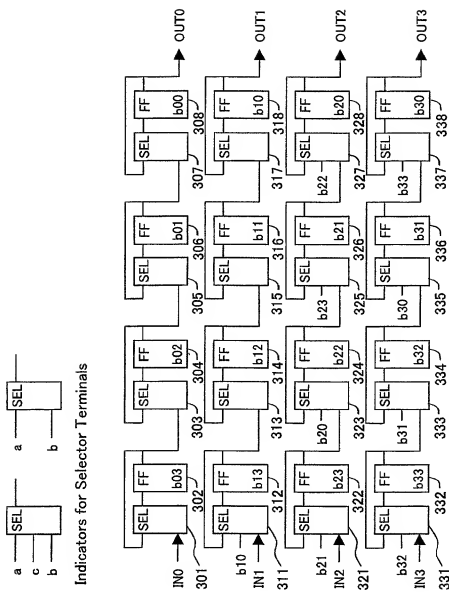


Fig. 5

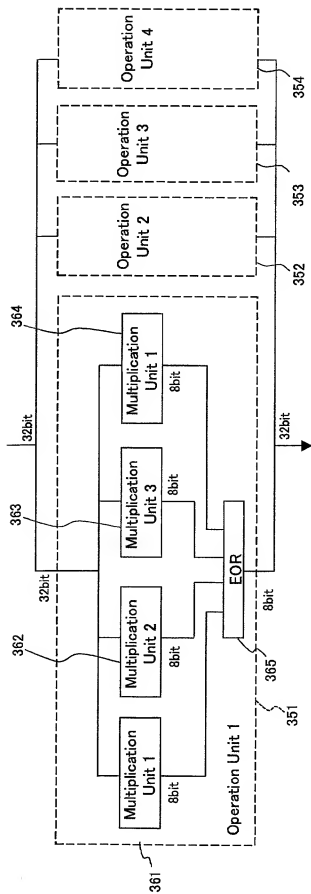


Fig. 6

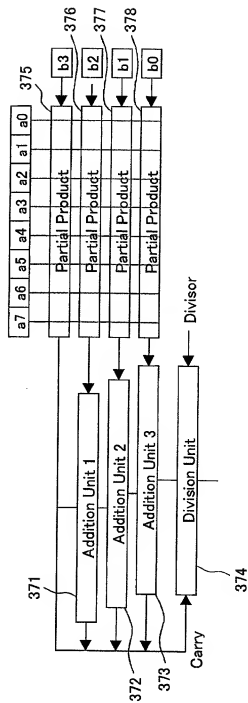


Fig. 7

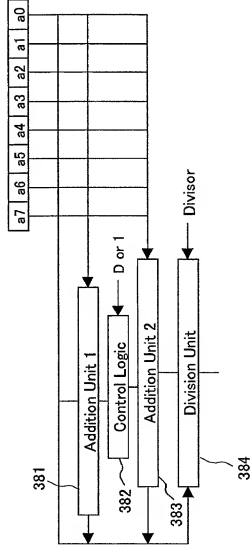


Fig. 8

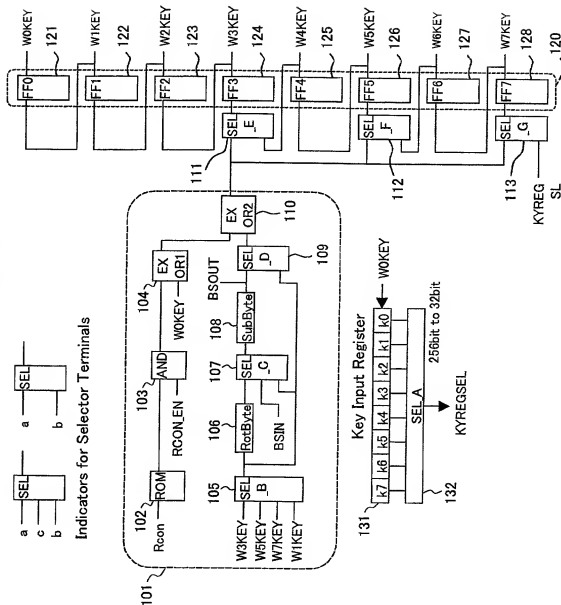


Fig. 9

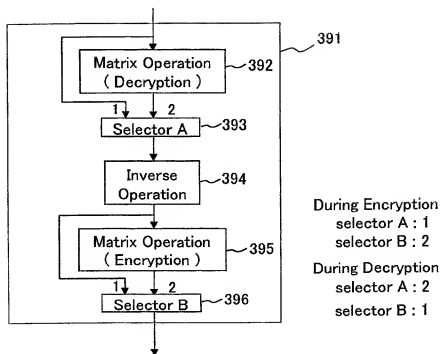


Fig. 10

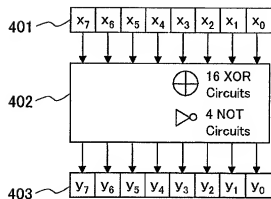


Fig. 11

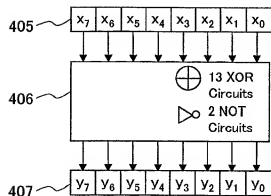


Fig. 12

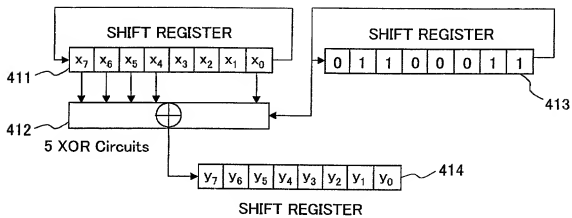


Fig. 13

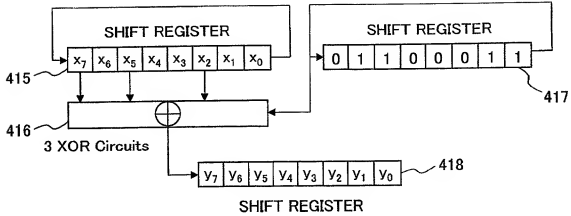


Fig. 14